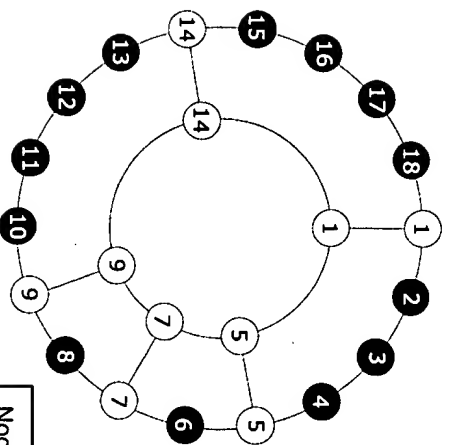


Single level Circular structure

Probability of shortest path between a X node a Y node : 4.764
Max number of shortest path: 9

Node No.	Base node : 1
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9
11	8
12	7
13	6
14	5
15	4
16	3
17	2
18	1
Sum	81
Avg.	4.8
Max.	9



Multi Level Circular Structure

Probability of shortest path between a X node a Y node : 2.908
Max number of shortest path: 6

Node	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	1	1	2	2	1	2	2	3	2	3	4	3	2	1	2	3	2	1
3	2	1	1	2	2	3	3	4	3	4	5	4	3	2	3	4	3	2
4	2	2	1	1	2	3	3	4	4	5	6	5	4	3	4	5	4	3
5	1	2	2	1	1	2	2	3	3	4	5	5	4	3	4	5	4	3
6	2	3	3	2	1	1	1	2	2	3	4	4	3	2	3	4	3	2
7	2	3	3	2	1	1	1	2	2	3	4	5	4	3	4	5	4	3
8	3	4	4	3	2	2	1	1	1	2	3	4	3	2	3	4	4	3
9	2	3	4	3	2	2	1	1	1	2	3	4	3	2	3	4	5	4
10	3	4	5	4	3	3	2	2	1	1	2	3	2	1	2	3	4	3
11	4	5	6	5	4	4	3	3	2	1	1	2	3	2	3	4	5	4
12	3	4	5	5	4	5	4	4	3	2	1	1	2	3	4	5	6	5
13	2	3	4	6	3	4	3	3	2	3	2	1	1	2	3	4	5	4
14	1	2	3	3	2	3	2	2	1	2	3	2	1	1	2	3	4	3
15	2	3	4	4	3	4	3	3	2	3	4	3	2	1	1	2	3	2
16	3	4	5	5	4	5	4	4	3	4	5	4	3	2	1	1	2	3
17	2	3	4	4	3	4	4	5	4	5	6	5	4	3	2	1	1	2
18	1	2	3	3	2	3	3	4	3	4	5	4	3	2	3	2	1	1
sum	36	49	59	55	40	51	42	50	39	51	63	59	47	35	47	59	60	48

	Single level circular	Tree hierarchical structure	Multilevel Circular
Max	9	4	6
Average	4.764706	3.294118	2.908497